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DATE MAILED: 03/02/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/033,590	12/27/2001	Jun Su	42390P13376	9202
7590 03/02/2004			EXAMINER	
Charles K. Young			TRAN, MAI HUONG C	
BLAKELY, SC	OKOLOFF, TAYLOR &	Ł ZAFMAN LLP		
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2818	
Los Angeles, C	CA 90025-1026			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/033,590	SU, JUN	1			
Office Action Summary	Examiner	Art Unit	200			
	Mai-Huong Tran	2818	H**			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro , cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this con NED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on 13 F	ebruary 2004.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>25-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>25-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Oni	ce Action of form PTC	J-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmont/s)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	ary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date	450)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)	al Patent Application (PTO-	152)			
U.S. Patent and Trademark Office						
	ction Summary	Part of Paper No./Mail [Date 021704			

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 25-30 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent No. 6,658,174 to Doerr in view of Ooba et al. (6,084,050).

Regarding to claim 25, Doerr discloses a thermo-optic switch comprising a first substrate having a first waveguide 201; a heating element 210 in proximity to the first waveguide as set forth in col. 2, lines 1-20 and fig. 2; Doerr does not disclose a package substrate solder bonded to the first substrate via the heating element.

However, Ooba et al. teach a package substrate solder bonded to the first substrate via the heating element (col. 16, lines 62-67, col. 17, lines 1-16, and fig. 13).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a package substrate solder bonded to the first substrate via

the heating element, as taught by Ooba et al. in order to provide high-performance and low-cost digital optical switch (col. 4, lines 55-56).

Claim 26 is rejected under the same rationale set forth above to claim 25.

Claim 27 is rejected under the same rationale set forth above to claim 25.

Claim 28 is rejected under the same rationale set forth above to claim 27.

Allowable Subject Matter

Claims 29-30 allowed.

The following is a statement of reasons for the indication of allowable subject matter.

None of the references of record teaches or suggests the claimed a third common conductive strip spanning the distance and solder bonded to both first heating element and second heating element.

Conclusion

Any inquiry concerning this communication on earlier communications from the examiner should be directed to Mai-Huong Tran, (571) 272-1796. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM. The examiner's supervisor, David Nelms can be reached on (571) 272-1787.

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The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone

number is (703) 308-0956.

Devid Nelms
Supervisory Patent Examiner
Technology Center 2800

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Mai-Huong Tran